Journal

of the

American Veterinary Medical Association

Volume XCIV

New Series Volume 47

Index of Names

Alexander, Oliver C., 259. Amadon, Roger S., 18. Anderson, M. O., 562. Andrade, John S., 71.

Beach, B. A., 374.
Beach, J. R., 209.
Beath, O. A., 541.
Beaudette, F. R., 44.
Benner, James W., 120.
Biester, H. E., 517.
Bohn, James D., 376.
Booth, R. L., 440.
Bradley, W. B., 541.
Brandewie, William J., 71.
Bressou, Professor C., 38.
Broadhurst, Jean, 525.
Brooks, Paul B., 11.
Brown, Richard M., 436.
Bryant, John B., 126, 233, 652.
Bunyea, Hubert, 233.
Butler, Tait, 148.
Buttle, Norman A., 562.

Catlett, J. G., 650.
Chandler, Thomas W., 73.
Chapin, Stuart N., 70.
Clark, W. G., 684.
Clark, Nathaniel T., 71.
Clarke, Miriam K., 466.
Cornehl, Hugo, 562.
Cottrell, Lawrence Alexander, 562.

Damman, A. J., 129.
Day, L. Enos, 634.
Deem, A. W., 192.
Delaplane, J. P., 538.
Dimock, W. W., 469.
Ditmars, Raymond L., 383.
Dodge, Loren N., 257.
Dougherty, R. W., 357.
Dunlap, G. L., 45, 46.

Edelman, Frank James, 257. Edgington, B. H., 501. Eichhorn, Ervin A., 608. Emmel, M. W., 234, 409, 543, 612. Enge, E. H., 123. Eppson, H. F., 541. Eveleth, D. F., 411, 517.

Farquharson, James, 459, 647. Feist, A. A., 127. Fenstermacher, R., 90. Fitzgerald, T. C., 569. Fox, Howard, 398. Frank, E. R., 124.

Garr, E. S., 258. Gibson, Jonathon E., 458. Goddard, Charles H., 70. Goss, Leonard J., 232. Graves, Hobson W., 684. Grey, Charles G., 656.

Haasies, Chas., 57.
Hawthorne, Geo. A., 651.
Haigler, S. W., 545.
Hallman, E. T., 465, 653.
Hamann, E. E., 35.
Hardenbergh, John G., 479.
Haring, C. M., 372, 587.
Harrison, James, 72.

Harshfield, G. S., 52.
Hartke, George B., 458.
Heishman, J. O., 161.
Henson, W. R., 124.
Hershey, S. E., 655.
Hofferd, R. M., 55.
Hopson, George H., 378.
Howarth, C. R., 433.
Huddleson, I. F., 35.
Hudson, C. B., 662.
Huff, Clay G., 615.

Ireland, Joseph W., 73.

Jakeman, William Walter, 257. James, R. F., 157. Jeffries, Henry N., 562. Johnson, Charles Henning, 73. Johnson, H. W., 647. Joss, E. C., 172. Jungherr, Erwin, 49.

Kalmbach, E. R., 187. Keeley, Peter T., 684. Kernkamp, H. C. H., 207. Kinsley, E. F., 684. Knowles, A. T., 231. Kopp, James D., 70. Kotz, Joseph M., 546, 665.

Landsberg, J. W., 389, 595. Langham, Robert F., 653. Lee, C. D., 178. Lemay, Major Daniel, 257. Little, Ralph B., 496. Lo, Ching-Sheng, 237. Longacre, William S., 151. Lubbehusen, R. E., 209. Ludins, George H., 231. Lynch, George M., 149.

Macy, Ralph W., 537.
Madsen, D. E., 577.
Malcolm, Alexander F., 684.
Manthel, Chester A., 608.
Marsh, H., 98, 363.
McCapes, A. M., 432.
McClean, Francis H., 72.
McIntyre, Howard Hoke, 257.
Meisner, Harry A., 562.
Meredith, S. Meade, 258.
Micuda, J., 432.
Middaugh, Lloyd Herbert, 149.
Milks, H. J., 509.
Miller, W. T., 161.
Miner, Mark L., 458.
Mingle, C. K, 161.
Mohler, William M., 39, 590.
Moody, George C., 258.
Morin, L. N., 542.
Morse, J. B., 627.
Moskey, H. E., 75.
Moye, Kenneth Joseph, 70
Murdock, F. M., 161.
Murphy, William H., 71.
Neary, Walter E., 71.

Neary, Walter E., 71. Nichols, Roy E., 56. Nielsen, H. M., 577. Niemeyer, W. E., 434. Niles, W. B., 150. Osteen, O. L., 441. Ott, George L., 522. Paley, Charles, 525.
Parker, Foster F., 150.
Pearson, Raymond Allen, 259.
Pollock, R. C., 198.
Pomeroy, B. S., 90.
Posse, George A., 70.
Pyle, Norman J., 436.

Quin. A. H., 621.

Records, Edward, 489. Reichel, John, 418. Reihart, O. F., 33. Ridgway, William J., 258. Riser, W. H., 539. Roberts, G. A., 202. Roberts, Harry B., 230. Rogers, H. C., 258. Russell, Walter C., 81.

Sanders, D. A., 28, 543.
Savage, A., 431.
Schalk, A. F., 501.
Schalm, O. W., 372.
Schlotthauer, Carl F., 78,
Schofield, Joseph F., 258.
Schofield, W. C., 127.
Schwarte, L. H., 411.
Scott, Thomas O., 562.
Seghetti, L., 433.
Selkin, William J., 562.
Severin, J. E., 240.
Sholl, L. B., 663. 78, 404. Shu, Shupei, 536.
Springer, Samuel M., 151.
Stark, Herman, 118.
Stearns, T. J., 654.
Stephenson, William H., 71.
Stuart, H. O., 538.
Swain, Stephen H., 72.
Swan, William R., 561.
Swinehart, D. M., 125.

Thomas, J. F., 430. Thorp, Jr., Frank, 52, 192 Thorp, W. T. S., 365. Tobey, James A., 153. Tompkins, L. J., 57. Topacio, Teodulo, 492. Tunnicliff, E. A., 98. Twisselmann, N. M., 235. 52, 192.

Van Roekel, H., 466. Vawter, L. R., 128, 489. Vetterling, Herman A., Vulliamy, H. F., 684.

Wagers, Robt. P., Wagner, C. C., 230. Wagner, C. C., 230.
Waller, E. F., 539.
White, Robert T., 562.
Wilcke, H. L., 178.
Wilkins, H. W., 363.
Wright, Willard H., 601.

Yates, Vivian W., 149.

List of Illustrations

PHOTOGRAPH STAFF OF THE A. V. M. A. SECRE-

Photograph Staff of the A. V. M. A. SecreTariat, 4.
Portrait, Dr. John H. Gillmann, 5.
Portrait, Dr. George W. Gillie, 7.
Streptococcic Mastitis and Public Health, 11.
Fig. 1. Photomicrograph of section of udder
of cow responsible for two milk-borne outbreaks of scarlet fever, six months apart (x
650), 13.
Fig. 2. Photomicrograph of section of udder
of cow responsible for two milk-borne outbreaks of scarlet fever, six months apart (x
2,000), 14.
Portrait, Professor C. Bressou, 38.
Congenital Hypertrophic Keratinizing Dermatosis in a Calf, 45.
Fig. 1. Calf hide. Two-thirds natural size.
Cross-section below, 45.
Fig. 2. Section of calf hide showing numerous
hair-shafts, indistinct epidermal layers and
excessive cornification (x 40), 46.
Poisoning in Cattle Traced to Arsenic in Grasshopper Bait, 46.
Fig. 1. Calf suffering from "grasshopper bait"
poisoning, showing weakness, unsteadiness,
and "tucked up" abdomen. Calf died a few
minutes after picture was taken, 46.
Fig. 2. Abomasum, showing the two large, denuded areas and thick edematous folds of
the mucous membrane, 47.
Fig. 3. Section of wall of abomasum near
margin of involved area. Architecture retained but very little nuclear staining (x
70), 48.
Fig. 4. Section of wall of abomasum at mar-

tained but very little nuclear staining (x 70), 48.

FIG. 4. Section of wall of abomasum at margin of lesion showing cellular reaction between dead and living tissue (x 70), 48.

NEUROLYMPHOMATOSIS PHASIANORUM. 49.

FIG. 1. Cross-section of M. tibialis anticus, showing waxy degeneration and proliferation of perimysium (x 160), 51.

FIG. 2. Kidney showing a lymphoid focus adjacent to a large vessel (x 160), 51.

FIG. 3. Spleen showing a hypertrophic Malpighian corpuscle and lymphoid hyperplasia in the pulp (x 160), 51.

FIG. 4. Section of cerebrum in the region of the corpus striatum showing a perivascular

Fig. 4. Section of cerebrum in the region of the corpus striatum showing a perivascular focus (x 160), 51.

Fig. 5. Section of sciatic nerve showing lymphoid infiltration characteristic of neurolymphomatosis (x 160), 51.

AN UNUSUAL CASE OF FOREIGN BODIES IN THE ALIMENTARY CANAL OF A MULE, 54.

Fig. 1. Two nails found in pylorus of stomach, 54.

Fig. 2. Nails and other objects found in ventral part of colon

Fig. Fig. 2. Nails and other objects found in ventral part of colon,
 Fig. 3. Foreign bodies found in apex of cecum.

NASAL POLYPUS IN A CHIMPANZEE, 56.
Fig. 1. Nasal polypus removed from a chimpanzee, 56.
Cow Adopts Fawn, 57.
Fig. 1. Fawn nursing foster mother, 57.
PHOTOGRAPH, DR. ADOLPH EICHHORN, EDITOR; PROF.
DR. RUDOLPH MANNINGER, CO-AUTHOR; DR. J. R.
MOHLER, EDITOR; DR. J. RUSSELL GREIG, EDITORIN-CHIEF, FOURTH ENGLISH EDITION, "SPECIAL
PATHOLOGY AND THERAPEUTICS OF THE DISEASES
OF DOMESTIC ANIMALS," 58.
ACANTHOSIS NIGRICANS: REPORTS OF FOUR CASES.

ACANTHOSIS NIGRICANS: REPORTS OF FOUR CASES,

Fig. 1. Case 1, on September 24, 1938, 2½ years after treatment, 119.
SPONDYLITIS IN THE BOVINE, 124.
Fig. 1. Ayrshire cow showing characteristic

symptom, 125.

Symptom, 125.

SUPERFETATION IN A SOW, 125.

FIG. 1. Dr. Swinehart (left) holding two of the pigs born Sept. 27, and Dr. D. C. Gamble (right) with two of the pigs farrowed Sept. 2, 126.

Sept. 2, 126.
Fig. 2. Both litters together, 126.
Fig. 3. Dam with litter of eight born Sept. 2, to be followed by a litter of nine born Sept. 27, 126.

to be followed by a litter of nine born Sept. 27, 126.

EMBRYOMA OF TESTICLE OF DOG, 127.

FIG. 1. Embryoma of testicle of dog, 127.

RUFTURED OVIDUCT IN A HEN, 127.

FIG. 1. The three fully formed leggs exposed at autopsy, 128.

FIG. 2. The five leggs found in the abdominal cavity, 128.

FIG. 3. The ruptured oviduct, 128.

PORTRAIT, DR. TAIT BUTLER, 148.

PORTRAIT, DR. TAIT BUTLER, 150.

THE CONCENTRATION OF SULFANILAMIDE IN THE BLOOD AND MILK OF CATTLE AND ITS EFFECT ON BRUCELLA ABORTUS AND STREPTOCOCCAL INFECTIONS OF THE BOVINE UDDER, 161.

FIG. 1. Graph showing concentration of sulfanilamide in the blood and milk of cow 9933. Drug administered in water by stomach-tube, 162.

FIG. 2. Graph showing concentration of sulfanilamide in the blood and milk of cow 2075. Drug administered in water by stomach-tube, 164.

FIG. 3. Graph showing concentration of sulfanilamide in the blood and milk of cow 2075. Drug administered in water by stomach-tube, 164.

FIG. 3. Graph showing concentration of sulfanilamide in the blood and milk of cow

ach-tube, 164.

Fig. 3. Graph showing concentration of sulfanilamide in the blood and milk of cow 2076. Drug administered in water by stomach-tube, 168.

Fig. 4. Graph showing concentration of sulfanilamide in the blood and milk of cow 1881.

Drug administered with the grain feed, 169.

Fig. 5. Graph showing concentration of sulfanilamide in the blood of cows 1858 and 1887. Drug administered with the grain feed, 170.

FIG. 6. Graph showing concentration of sulfanilamide in the blood of cows 1870, 1908 and 1909. Drug administered in water by stomach-tube, 1/1.

SUCKLEYA SUCKLEYANA, A POISONOUS PLANT, 192.
FIG. 1. Poison suckleya (Suckleya suckleyana); greatly reduced in size, 193.
FIG. 2. Steer used in suckleya-feeding experiments, staggering before falling as a result of poisoning, 194.
FIG. 3. Beginning of muscular incoördination as a result of poisoning in the case of the smaller ewe fed poison suckleya in experiments, 196.

as a result of poisoning in the case of the smaller ewe fed poison suckleya in experiments, 196.

Tetanus in a Cat, 231.

Fig. 1. Cat almost recovered from case of tetanus, 231.

THE OCCURRENCE OF PAPILLOMATOUS GROWTHS ON THE FEET AND LEGS OF PRESUMABLY IRON-DEFICIENT TURKEYS, 234.
FIG. 1. Tumors on feet and legs of turkeys,

PRIMARY CARCINOMA OF THE LUNG OF A SHEEP, 237.
FIG. 1. Lung lesions showing discrete neoplastic foci (natural size), 238.
FIG. 2. Section showing tumor cells invading a bronchus. A nest of tumor cells is seen on either side of the bronchus (x 300), 239.
FIG. 3. Section showing several nests of tumor cells separated by thin strands of connective tissue. Several mitotic figures are seen among the tumor cells (x 600), 239.
PHOTOGRAPH, BANQUET, NATIONAL ASSOCIATION OF BUREAU OF ANIMAL INDUSTRY VETERINARIANS, LA SALLE HOTEL, CHICAGO, ILLINOIS, DECEMBER 1, 1938, 250.
PHOTOGRAPH, TO LEONARD BRUMBY, ORGANIZER AND

SALLE HOTEL, CHICAGO, ILLINOIS, DECEMBER 1, 1938, 250.

PHOTOGRAPH, TO LEONARD BRUMBY, ORGANIZER AND PRESIDENT OF THE PROPESSIONAL HANDLERS ASSOCIATION, GOES THE "NOBEL PRIZE OF THE DOG WORLD," THE CHAPPEL AWARD. BESTOWED BY THE CHAPPEL KENNEL FOUNDATION FOR THE MOST DISTINGUISHED SERVICE TO DOGDOM IN 1938, THIS AWARD WAS PRESENTED TO MR. BRUMBY (RIGHT) BY T. H. CARRUTHERS III (HOLDING PLAQUE), DURING THE WESTMINSTER DOG SHOW IN NEW YORK'S MADISON SQUARE GARDEN, 255.

PORTRAIT, BIRDSALL CARLE, 256.

PHOTOGRAPH, HOTEL PEABODY, MEMPHIS, TENNESSEE, HEADQUARTERS OF THE 76TH ANNUAL MEETING OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION, AUGUST 28-SEPTEMBER 1, 256.

ACTINOBACILLOSIS IN SHEEF, 363.

FIGS. 1 and 2. TWO views of a sheep affected with actinobacillosis, 363.

FIG. 3. Section of lesion of actinobacillosis, showing the characteristic radiating club forms (x 450), 364.

Fig. 3. Section of lesion of actinobacillosis, showing the characteristic radiating club forms (x 450), 364.

PATHOLOGY OF CALF PNEUMONIA, 365.

Fig. 1. The ventral aspect of the lungs of a two-month-old calf with bronchopneumonia of three-week duration (1/6 actual size), 365.

Fig. 2. The lungs from a two-months of the lungs of a control of the lungs of a lung size), with respect to the lungs of a control of the lung size), with the lungs from a two-months of the lungs from a two-months of the lungs from a lung size).

365.

Id. 2. The lungs from a two-month-old calf with pneumonia of two-week duration. Note the extension of the pneumonia into the diaphragmatic lobes, 365.

Id. 3. Section from the mediastinal lobe of the lung illustrated in figure 2, showing an acute bronchitis with desquamation of the epithelium. Note the congested capillaries (x 130), 366.

Id. 4. Section from the lung of a four-month-old calf with a pneumonia of 18-day.

(x 130), 366.
To. 4. Section from the lung of a fourmonth-old calf with a pneumonia of 18-day duration, showing distention of one of the lymphatics of an interlobular septum with fibrin and leukocytes (x 130), 366.
To. 5. Section from the lung of a six-month-old calf with a pneumonia of three-day duration, showing an acute bronchitis with desquamation of the epithelium. Note the large number of epithelial cells in the lumen of the bronchus (x 105), 367.
To. 6. Section of the lung of a 14-week-old calf with a clinical history of pneumonia of one-week duration, showing considerable productive tissue changes with fibrosis in the wall of a respiratory bronchiole (x 130),

the wall of a respiratory bronchiole (x 130), 367.

387.
Fig. 7. Section from the lung of an eightweek-old calf with a pneumonia of twelveday duration, showing a small bronchiole with marked cellular infiltration of the peribronchial tissue (x 150), 368.
Fig. 8. Section from the lung of a ten-week-old calf with a pneumonia of eleven-day duration, showing suppuration of the wall of the bronchiole and necrosis of the cells of the exudate in the lumen (x 150), 368.

IG. 9. Section from the lung of a four-month-old calf with a clinical history of pneumonia of two-week duration, showing a subacute bronchopneumonia with consider-FIG 9.

subacute bronchopneumonia with able atelectasis (x 85), 369.

Fig. 10. Section from the lung of a fourmonth-old calf with a pneumonia of 18-day duration, showing an increase in the number of fibroblasts in the alveolar wall found the lung of a fourmonth-old calf.

month-old calf with a pneumonia of 15-uay duration, showing an increase in the number of fibroblasts in the alveolar wall (x 550), 363.

Fig. 11. Section from the lung of a fourmonth-old calf with a pneumonia of 18-day duration, showing marked productive tissue changes in the alveolar wall (x 140), 369.

Fig. 12. Section from the same case illustrated in figure 11, showing an organized exudate in the alveolus (x 650), 370.

Fig. 13. Section from the lung of a sevenmonth-old calf with a pneumonia of three-day duration, showing an area in which practically all of the alveoli contain a fibrinous exudate (x 150), 370.

Fig. 14. Section from the case illustrated in figure 13, showing the continuity of the exudate through an alveolar pore (x 650), 370.

Fig. 15. Section from the lung of a one-month-old calf, showing a terminal bronchiole with a recent bronchopneumonia (x 100), 371.

Fig. 16. Section from the lung of a three-month-old calf, showing a terminal bronchiole with a recent bronchopneumonia (x 100), 371.

month-old cair, showing a terminal bronchiole with a recent bronchopneumonia
(x 100), 371.
Fig. 16. Section from the lung of a threemonth-old cair with a pneumonia of elevenday duration, showing a recent bronchitis
with considerable infiltration of mononuclear
METHOD OF PREPARING BOVINE UDDERS FOR THE
STUDY OF MASTITIS, 372.
Fig. 1. Apparatus for injecting formalin into
the duct and vascular systems of the udder

(6. 1. Apparatus for injecting formalin into the duct and vascular systems of the udder,

16. 2. Electrically driven meat-slicer for reducing the udder to a series of slices, 373.

ducing the udder to a series of slices, 3/3. KE BITES AMONG DOMESTIC ANIMALS, 383.

FIG. 1. The fangs of a rattlesnake. These teeth are hollow, with orifice at the tip, like hypodermic needles. They fold back against the roof of the mouth when the jaws are closed, 383.

are closed, 383.

10, 2. Implements for treating snake bite. From left to right; suction bulb with two types of applicators and, beneath, loaded Antivenin syringe with needle and handle; center, sterilized scalpel; top, bottle of serum and type of veterinary syringe used where large doses are indicated, 384.

10. 3. Timber rattlesnake of the eastern United States. There are both black and yellow phases, the latter with dark, transverse hands 385. are closed,

United States, There are both black and yellow phases, the latter with dark, transverse bands, 385.

Fig. 4. Copperhead snake—inhabits the eastern United States with western extension into Texas and Oklahoma, 386.

Fig. 5. Water moccasin—inhabits the southeastern United States with extension northward into Virginia and westward to the Mississippi Valley, 387.

TIBIAL FRACTURE IN A HORSE TREATED SUCCESSFULLY, 430.

Fig. 1. Splint being applied, 430.

Fig. 2. Patient, four months after injury, apparently completely recovered, 431.

TROUT POISONING, 432.

Fig. 1. Photomicrograph of encysted fluke,

Fig. 1. 432. Photomicrograph of encysted fluke,

INFECTIOUS EQUINE ENCEPHALOMYELITIS, 459.
Encephalomyelitis, sleepy type, showing animal just prior to falling, 459.
Encephalomyelitis, showing dirt-eating symptoms, 460.

toms, 460.

Encephalomyelitis, cross-legged symptoms, 461.
PHOTOGRAPH, PRENATAL HYDROCEPHALUS, 468.
PHOTOGRAPH, MEMPHIS ON THE MISSISSIPPI, 471.
PHOTOGRAPH, VIEWS OF THE PICTURESQUE MEMPHIS ZOOLOGICAL GARDENS, 473.
HEMOGRHAGIC SEPTICEMIA IN INDIAN BUFFALOES,

492

492.
Fig. 1. Chute used in the vaccination of farm animals at Bongabon Stock Farm, 493.
Fig. 2. A grade Indian buffalo steer, 494.
Fig. 3. Purebred Indian buffalo bull, 494.
PARASITIC SKIN DISEASES, 509.
Fig. 1. Pustular type of follicular mange, 509.
Fig. 2. Follicular mange, squamous type, 511.
Fig. 3. Sarcoptic mange (foot rot) in a ferret 512.

10. 3. Sarcoptic mange (too too) ret, 512.
10. 4. Upper left, ear-mange mite, Otodectis cynotis; lower left, sarcoptic mite, Sarcoptes carris; upper right, feed mite, Glycyphagus domesticus; lower right, sarcoptic mite (cat), Notoedres cati, 513.

Fig. 5. Ringworm in a Boston terrier, 515.
Fig. 6. Favus in the dog, 516.

Some Nutrational Studies in Swine, 517.
Fig. 1. Testicle, pig 767, which was fed skim milk on ration 2, showing tubular degeneration. Hematoxylin and eosin (x 140), 520.
Fig. 2. Spinal cord of pig 776, showing myelin degeneration after being on ration 1 for five months. Marchi method (x 280), 521.
Fig. 3. Kidney, pig 776. Note fatty degeneration. Marchi method (x 280), 521.
Fig. 1. Portion of breeding pen for silver foxes on the Nieman ranch, 522.
Chart 1. Fur range mortality, 1938; pups from ranches suffering no losses at time of shipment, 523.

shipment, 523.

HART 2. Fur range mortality, 1938; pups from ranches suffering distemper losses during summer—no losses at time of shipment, CHART

CHART 3. Fur range mortality, 1938; pups from ranches suffering distemper losses at time of shipment, 524. CHART 4. Fur range mortality, 1938; total pup losses—all ranches, 524.

CHART 4. Fur range mortality, 1938; total pup losses—all ranches, 524.
Diagram, The Innervation of the Genital Apparatus of the Male, 527.
Streamlined Sheep of China, 536.
Fig. 1. Streamlined sheep of Kiangsu, China. Note the total absence of ear and horn, 536.
Fig. 2. Another view of the streamlined sheep, 536. FIG. 2.

DISEASE IN TURKEYS DUE TO PROSTHOGONIMUS MACRORCHIS, 537.

FIG. 1. Lower, opened oviduct of turkey showing trematodes (Prosthogonimus macrorchis), a few of which are indicated by arrows; upper, plug of abortive egg material taken from the oviduct, 537.

FIG. 2. Lower, plug of abortive egg material from oviduct; upper, clumps of abortive egg material taken from body cavity, 538.

MULTIPLE ABSCESSES IN THE SKIN OF DOGS, 539.

FIG. 1. Front feet of an affected puppy. Note the boxing-glove-like swelling, 539.

ANIMALS THAT MAKE THE NEWS, XiV (May).

Mei-Mei—the most publicized lady of American animaldom, xiv.

Cherry, the world-champion milk cow, xviii.

Carnation Ormsby Butter King, the dethroned world-champion milk cow, xviii.

SOMATODIDYMI GASTRO-THORACODIDYMUS (MON-STROSITY IN THE CALF), 569.

DOFSAI view of the monstrosity, 570.

Ventral view of the monstrosity, 570.

Ventral dissection, thoracle limbs reflected. (1. Left carotid artery. 2. Right carotid artery. 3. Aorta. 4. Pericardium. 5. Brachial

Left carotid artery. 2. Right carotid artery. 3. Aorta. 4. Pericardium. 5. Brachial plexus. 6. Diaphragm. 7. Liver of smaller 3. Aorta.
plexus. 6. Diaphragm. 1.
calf), 571.

Dorsal x-ray of the monstrosity, 572.
Ventral dissection; livers removed; umbilical structure reflected, 573.
Ventral dissection, showing vascular and urogenital systems, 574.

dissection, showing urogenital systems.

ital systems, 574.

Deep ventral dissection, showing urogenital systems, 575.

Parturient Hemoglobinemia of Dairy Cows, 577.

Gangrene of the the right hind limb resulting from parturient hemoglobinemia. The line of demarcation is at the proximal end of the first phalanx, 577.

Cow affected with parturient hemoglobinemia on the third day of illness. The animal is weak, gaunt, depressed and anemic. Erythrocyte count, 1,500,000, 580.

count, 1,500,000, 580.

JOHNE'S DISEASE INFECTION OF LABORATORY ANIMALS WITH AID OF PARAFFIN OIL, 590.

FIG. 1. Enlargement and caseation of cervical
lymph glands of a guinea pig affected with
Johne's disease (actual size), 591.

FIG. 2. Spleen of guinea pig, showing caseous
nodules containing M. paratuberculosis (actual size), 593.

BLOOD PICTURE OF YOUNG, NORMAL DOGS, 595.
FIG. 1. Frequency distribution of erythrocyte counts, hemoglobin and volume of packed red cells in 95 normal dogs, 596.
FIG. 2. Frequency distribution of the mean corpuscular volume mean corpuscular barrows. Fig. 1.

16. 2. Frequency distribution of the mean corpuscular volume, mean corpuscular hemoglobin and mean corpuscular hemoglobin concentration in 95 normal dogs, 597.

16. 3. Frequency distribution of the total leukocyte counts on 81 normal dogs, 599.

16. 4. Frequency distribution of the blood

platelets in 82 normal dogs, 599.

OBSERVATIONS ON CAPILLARIA CONTORTA IN TURKEYS.

G. 1. Typical, penguin-like posture of a turkey in advanced stage of *C. contorta* infestatation, 612.

tation, 612. 16. 2. Crop and esophagus of an affected tur-

tation, 612.

Fig. 2. Crop and esophagus of an anecoskey, 613.

Fig. 3. Photomicrograph, showing necrosis of the esophageal epithelium, hemorrhage and C. contorta eggs (x 260), 614.

Fig. 4. Photomicrograph, showing parasite eggs and a parasite (C. contorta) in the stratified squamous epithelium of the crop (x 400), 614.

Survey of the Blood Parasites of Birds Caught for Banning Purposes, 615.

Fig. 1. Organism of obscure nature from Fig. 1. Organism of canary. There is a close re-CAUGHT FOR BANDING PURPOSES, 615.

FIG. 1. Organism of obscure nature from blood smear of canary. There is a close resemblance to Sergentella hominis Brumpt, 1910. (75µ long, 2µ in diameter at center.)

PHOTOGRAPH, THE COTTON INDUSTRY ACCOUNTS FOR MUCH OF THE ECONOMIC IMPORTANCE OF MEMPHIS—THE WORLD'S LARGEST INLAND COTTON MARKET, 828

628.
PHOTOGRAPH, DEDICATED TO WAR HEROES, 631.
PORTRAIT, L. ENOS DAY, 634.
"Hogs Died Like Files," 635.
Taken in 1995, this picture shows Dr. McBryde standing by the door of the shed on skunk River where hog cholera was shackled. Years later he returned to take charge of the modern field station erected on the same site 625. 635.

site, 635.

Left to right: W. B. Niles, Marion Dorset, and
C. N. McBryde, 635.

Fracture of the Mandible and Its Treatment
IN the Dog, 647.

Fig. 1. X-ray, showing symphyseal fracture
of the body of the mandible, 647.

Fig. 2. Angular fracture of the body of the
mandible, 648.

Fig. 3. Symphyseal fracture

Fig. 2. Angulas, mandible, 648.
Fig. 3. Symphyseal fracture with wire inserted, 648.
rs for Drugs in Thoroughbreds, 650.
Fig. 1. J. G. Catlett (left), supervising veterinarian for the New York and Florida State Racing Commissions, making salivatest on a thoroughbred, at Belmont Park, Island, N. Y., Mr. Walter Turnier Island, N. Y., Mr. Walter Turnier Sland, N. Y., Mr. Walter Turnier

CHRONIC MYELOID LEUKEMIA OF A Hog?, 653.
Fig. 1. Spleen on eighth day following slaughter, reduced to approximately one-seventh.
A twelve-inch rule is included for compari-

A twelve-inch rule is included for comparison, 653.

IG. 2. Photomicrograph, including areas of malpighian bodies and red pulp (x 80), 653. Inc. 3. Photomicrograph of red pulp, illustrating immature forms of leukocytes (x 600), 654. FIG.

600), 654.

INTESTINAL COMPLICATIONS DUE TO ENLARGED LIVER, 655.

FIG. 1. Liver of the affected bull.

FIG. 2. Spleen of the affected animal.

ACUTE ENDOCARDITIS IN A COW, 656.

FIG. 1. A—Portion of right ventricle containing blood clot. B—Small portion of growth which almost completely filled the right auricle, 656.

CURLED TONGUE IN YOUNG POULTS, 662.

FIG. 1. An affected poult, showing the curled-tongue abnormality, 662.

THROMBIC OBSTRUCTION OF THE POSTERIOR AORTA OF A HORSE, 667.

A Horse, 667.
Photograph of the specimen of thrombosis of

Photograph of the specimen of thrombosis of the abdominal aorta in a horse, showing dorsal recumbent position, 667.

Photograph, DeVoy Hotel, 673.

Photograph, Hotel Chisca, 673.

Photograph, Lobby of the Gayoso, 673.

Photograph, Claridge Hotel, 673.

Photograph, Wm. Len Hotel, 673.

Photograph, Wm. Len Hotel, 673.

Photograph, Skyway Room of the Peabody, 673.

Portrait, W. H. Wright, recently named chief of the Division of Zoology, National Institute of Health, United States Public Health Service, to succeed the late Maurice C. Hall, 677.

677.
PORTRAIT, A. E. CAMERON, 679.
ANIMALS THAT MAKE THE NEWS, xvi (June).
A fleet of racing pigeons in the training head-quarters high atop the Times building in Chicago. Note the barred entrance to the loft in the left hand corner. The instant a bird returns from an errand and touches one of the bars to enter the loft, a bell rings in the editorial office on the fourth floor, informing of the arrival.

Index of Subjects

Abscesses in the Skin of Dogs, Multiple, 539.
Acanthosis Nigricans: Reports of Four Cases, 118.
Accident, A Peculiar, 57.
Actinobacillosis in Sheep, 363.
Actinomycosis, Sulfanilamide in, 664.
Activity, A New, 528.
Age of Seventy-Six, At the, 636.
Airport Aids Migrating Birds, 156.
Atlanta Veterinary Medical Society, 142.
A. M. A., The Scientific Exhibits of the, 638.
American Animal Hospital Association, 117, 680.
American Vultures and the Toxin of Clostridium Botulinum, 187.
Among the States, 558, 677.
Amphetamine Sulfate in Equine Encephalomyelitis, 651.

651.

Anaphylaxis as Related to Biologic Prophylaxis and Treatment of Animals, 418.

"And Sudden Death," 444.

Anemia and Worms, 600.

Anemia, Nephritis and Its Influence upon Hemoglobin Production in Experimental, 550.

Anemia, Studies with Dogs, 63.

Anemia, The Non-Hemoglobin Cellular Iron in, 244.

Anemia, Verminous, 225.

Animal Pathology, 131.

Animals That Make the News, xiv (May), xvi (June).

(June)

Anthrax in Farm-Raised Mink in Oregon, 433.
Anthrax Poster Issued, 249.
Antirabic Immunization with Formolized Culture
Virus, Studies on, 244.

Virus, Studies on, 244.
Antiserum for Equine Encephalomyelitis, Production of, 60.
Aorta of a Horse, Thrombic Obstruction of the Posterior, 667.
Applications for Membership, 6, 114, 227, 428, 531,

Veterinary Service, 64, 137, 247, 457, 556,

Army 675. Arsenic in Grasshopper Bait, Poisoning in Cattle

Arsenic in Grasshopper Balt, Poisoning in Cattle Traced to, 46.
Arthritis, Degenerative, 63.
Ascites, Fetal, 432.
Ascorbic Acid Deficiency on Enamel in the Teeth of Guinea Pigs, The Effect of, 243.
Autopsies on Sheep and Lambs, A Summary of 700, 663.
Avitaminoses, Tests for, 600.

Avitaminoses, Tests for, 600.

Bacilli and Their Products, Cellular Reactions to Defatted Tubercle, 245.

Bacilli in the Udder of a Goat, Change of S to R Forms, Avian Tubercle, 135.

Bacilli of the Human Type, The Virulence of Tubercle, 246.

Bacterium Necrophorum in Rabbits, The Effect of Sulfanilamide on Experimental Infections with, 551.

b51.
Bacteriophage, Crystaline Enzymes and, 671.
Bandagieren der Pferde, Das, 447.
Banding Purposes, A Survey of the Blood Parasites of Birds Caught for, 615.
Bang's Disease: I. Effect on Agglutinin Titres and Results of First Pregnancies, Calfhood Vaccination Agglutin 479

Results of First Pregnancies, Calfhood Vaccination Against, 479.

Bang's Disease of Cattle That Have Passed Through an Artificially Induced Outbreak and Recovered, Resistance to, 374.

Bang's Disease, Vaccination for, 488.

Baton Rouge Veterinary Group, 141.

Beef, Ballot Shows Most People Favor Lean Cuts of, 375.

Beef, Ballot Shows Most People Favor Lead.
of, 375.
Beef Gains Increased by All-Summer Grazing, 373.
Beeswax, Cosmetic Industry is Heavy User of, 89.
Big-Game Animals, Federal Lands Help, 191.
Bird Refuge for Missouri, 43.
Births, 74, 152, 260, 458, 683.
Blacktongue in Dogs, Nicotinic Acid in the Prevention of, 133.
Blood of Normal Cows, Chemical Studies of the, 33.
Blood of Normal Cows, Chemical Studies of the, 33.
Blood Parasites of Birds Caught for Banding Purposes, A Survey of the, 615.
Blood Picture of Young, Normal Dogs, The, 595.
Blood of Swine Infected with Hog Cholera, Chemical Changes in the, 411.
Blood Plasma Proteins as Influenced by Liver Informatical Changes in the, 411.

Blood Plasma Proteins as Influenced by Liver In-jury Induced by Carbon Tetrachloride and Gum Acacia, 61.

Bodies in the Alimentary Canal of a Mule, An Unusual Case of Foreign, 54.

Botulism in Foxes, 436.
Breeding Hygiene, Equine, 469.

Breeding Hygiene, Equine, 449.
Bronchopneumonia (Pneumoenteritis) of Dairy Calves, Some Observations on the Nature and Transmission of Enzočtic, 28.
Brucella Abortus Strain 19 in an Infected Herd, Results of Vaccination with, 587.
Brucellosis Avian 547.

Results of Vaccination with, sor.

Brucellosis, Avian, 547.

Brucellosis, The Use of Sulfanilamide in Experimental, 550.

Bureau of Animal Industry Veterinarians, National Association of, 250.

Bureau Transfers, 43, 138, 206, 457, 676.

Calcification of the Permanent Teeth in Lambs, Fluorine Poisoning and, 446.
Calcium Therapy, 542.
Capillaria Contorta in Turkeys, Observations on, 612.

oliz. Carcinogenesis, Rate of Absorption of Carcinogens and Local Tissue Reactions as Factors Influenc-ing, 62. Carcinogenesis with 3:4 Benzpyrene, On the Failure of Acute and Subacute Inflammation to Influence,

62.

62.
Carcinoma of the Lung of a Sheep, Primary, 237.
Carcinoma of the Tongue in a Horse, 124.
Careers Ended, Two Useful, 112.
Carpenter Now a Hoosier, Doctor, 17.
Castration of Pigs at Vaccination Time, 551.
Cat Book, A Practical, 679.
Changes in the Central Office, 639.
Chappel Award Presented, 255.
Chemists Devise Quick Test for Food Cheat, Federal, 80.

Chemists Devise Quick 1683.
Chemotherapy, Antitoxic, 633.
Chick-Embryo Antigen in Equine Encephalomyelitis, Complement Fixation with, 39.
Chick Embyro, Propagation of the Virus of Vesicular Stomatitis in the, 608.
Civil Service Examination, United States, 10.
Clark's 24th Birthday, Tommy, 240.
Clostridium Botulinum, American Vultures and the Toxin of, 187.
Clostridium Tetani from the Intestines of Normal Sheep in Cambridgeshire, Notes on the Isolation of, 244.

of, 244.

Cobalt on Pine Disease in Sheep, The Influence of, 133.

Coccidia from the Domestic Sheep, Species Differ-

Coccidia from the Domestic Sheep, Species Differentiation in the, 135.
Coccidiosis, Sulfanilamide in Canine, 240.
Colic or Obstipation Common in the Tropics, A Type of Equine, 202.
Colics, Blood Potassium in, 117.
Colin's Summer Sore Paste, 478.
Complex, The Endocrine, 529.
Congressman Gillie, 7.
Connecticut Veterinary Medical Association, 455.
Convention Dates, 5.
Convention Plans, 422.
Cornell's Thirty-first Annual Conference for Veterinarians, 455.
Correspondents, 425.
Cottonseed Meal: Origin, History, Research, 450.
Cow Adopts Fawn, 57.

Cow Adopts Fawn, 57. Cows in Well Built Barns Need No Artificial Heat,

Coyote a Real Pest to Farm Animals, Poor Trapping Makes, 89.
Curled Tongue in Young Poults, 662.

Curled Tongue ...

Dachshund, 403.

Dairy Herd Output, Proved Sires Boost, 97.

Davainea Proglottina, in the Intestine of the Host,

Observations on the Biology of the Poultry Observations on the Biology of the Poultry Cestode, 134. Deficiency Diseases, Some Factors Involved in the,

621.

621.

Delaware, Changes at the University of. 249.

Dermatosis in a Calf, Congenital Hypertrophic Keratinizing, 45.

Dictionary, Pocket Pronouncing Medical, 241.

Diet, Oxidative Changes Induced by a Mineral-Deficient, 133.

Diroflaria Immitis (Leidy 1856), in New England, Observations on the Occurrence of Heartworm, 242.

243. Disease in Florida, An Ictero-Hemoglobinuria-Like,

Distemper Inclusions, A Comparative Study of, 548.

Distemper-Serum Production, Ferrets in, 448.
Distemper, Treatment of Fox, 522.
District of Columbia Veterinary Medical Association, 145, 681.
Dog-Food Production Soars, 397.
Drugs in Thoroughbreds, Tests for, 650.
Drugs Under Scrutiny, Dangerous, 73.
Dye in the Connective Tissue, Normal and Pathological Factors Influencing the Spread of a Vital, 245.

245

Dystrophy, Vitamin E and Nutritional Muscular, 661.

661.
Eberhart, X-Ray Pioneer, Dead, Dr. N. M., 247.
Eczema, The Mystery of, 657.
Ejaculations, Electrically Induced, 527.
Election of Section Officers, 427.
Elections, Executive Board, 197, 427, 530, 638.
Electrophoresis, The Migration of the Etiologic Agent of Fowl Leukosis When Subjected to, 178.
Embryoma of Testicle of Dog, 127.
Emotions and Bodily Changes, 551.
Encephalomyelitis, Amphetamine Sulfate in Equine, 651.

651. Encephalomyelitis as a Professional Question,

Equine, 223.
Encephalomyelitis, Complement Fixation with Chick-Embryo Antigen in Equine, 39.
Encephalomyelitis Diagnosed in Kentucky, Equine,

232

Encephalomyelitis, Infectious Equine, 459.
Encephalomyelitis in the Guinea Pig, The Pathology of Eastern Equine, 62.
Encephalomyelitis Kills Woman, Equine, 465.
Encephalomyelitis: Mid-Winter Case, Infectious,

441

441.
Encephalomyelitis, Production of Antiserum for Equine, 60.
Encephalomyelitis, Studies on Eastern Equine, 669.
Encephalomyelitis, The Syndrome of, 3.
Encephalomyelitis Virus (Eastern Type) Isolated from Ring-Necked Pheasant, Equine, 466.
Endamoeba Histolytica in the Dog, Experimental Studies on, 668.
Endocarditis in a Cow, Acute, 656.
Endoparasites for Veterinarians, Practical Identification of, 552.
Endotoxin from Aspergillus Fumigatus, An, 60.

Endocarditis in a Cow, Acute, 600.
Endoparasites for Veterinarians, Practical Identification of, 552.
Endotoxin from Aspergillus Fumigatus, An, 60.
Entomology, A Guide to Veterinary Parasitology and, 450.
Errata, 208.
Entomology, Medical, 670.
Entomology, Veterinary Helminthology and, 449.
Escherichia Coli Communis, An Acute Infectious Disease of Pullets Apparently Caused by, 235.
Enzymes and Bacterlophage, Crystaline, 671.
Epidural Anesthesia in Cows, Accidents of, 576.
Erysipelas, A Microscopic Agglutination Test for the Diagnosis of Swine, 669.
Erysipelas, Swine, 654.
Ether Anesthesia on the Volume of Plasma and Extracellular Fluid, The Effect of, 136.
Ethics in Consultations, 639.
Ewes, A Ranch Observation on Feeding Sheaf Oats to Lambing, 128.
Examinations, State Board, 10, 117, 246, 454, 555.
Executive Board Elections, 197, 427, 530, 638.
Exhibit Fund, A. V. M. A., 5, 113, 225, 453, 554, 674.

674.
Eyes of Lower Animals: Methods of Examination,
Diagnosis and Treatment, Some Diseases of the,

404.
Farm Products, Prices of, 375.
Fawn, Cow Adopts, 57.
Feeding Baby Pigs, 233.
Feeds and Forage, Commercial, 640.
Ferrets in Distemper-Serum Production, 448.

Fibrosarcoma, 440.
Fido Goes "Joe College," 249.
Florida State Veterinary Medical Association, 66.
Flukes in the Respiratory Tract of Ducks, 44.
Fluorine Poisoning and Calcification of the Permanent Teeth in Lambs, 446.

nent Teeth in Lambs, 446.
Fluoroscope Aids in Removal of Foreign Body from Stomach, 231.
Food, Drug and Cosmetic Act, Veterinary Remedies Under the New, 75.
Food Sanitation, Some Legal Aspects of, 153.
Foot-and-Mouth Disease, 427.
Foot-and-Mouth Disease in Sweden, 147.
Forage, Commercial Feeds and, 640.
Forest Tip from Dairyman, 77.
Fort Dodge Branches, New, 197.
Fox Distemper, Treatment of, 522.
Foxes, Botulism in, 436.

Fracture in a Horse Treated Successfully, Tibial, Fracture of the Mandible and Its Treatment in the

Dog, 647. Fur Farming Business, More Information Needed

on, 37.

Gapeworms in Pheasants, Use of Iodine for, 538. Gastritis and Pericarditis in Dairy Cattle, Induced Gastritis and Pericarditis in Dairy Cattle, Induced Cases of Traumatic, 357. Grading of Dressed Beef and Poultry Carcasses, Factors Applied in the, 627. Grasses, Soil and Air Temperatures Limit Growth of, 382.

Haemonchus Contortus Infestation in Wild Animals, Two Fatal Cases of, 237.

Heartworm, Dirofilaria Immitis (Leidy 1856), in New England, Observations on the Occurrence

Heartworm, Diroflaria Immuis (Leily 1997), in New England, Observations on the Occurrence of, 243.

Heir Has Too Much to Spend, Canine, 666.

Helminthology and Entomology, Veterinary, 449.

Hemoglobinemia of Dairy Cows, Parturient, 577.

Hen Inherits Ability to Lay Egg with Thick White,

Hepatitis (Black Disease) in Sheep, An Alum-Precipitated Toxoid as an Immunizing Agent Against Infectious Necrotic, 98.

Hexylresorcinol, Treatment of Intestinal Parasites

Against Infectious Nectous, No.
Hexylresorcinol, Treatment of Intestinal Parasites with, 230.
Hit-and-Run Driver Injures Dog; Fined, 140.
Hog Cholera and Swine Influenza, Seasonal Remarks on, 55.
Hog Cholera, Chemical Changes in the Blood of Swine Infected with, 411.
Hog Cholera, Some Tests with Crystal-Violet Vaccine for Prevention of, 501.
"Hogs Died Like Flies," 635.
Hockworm Disease in Dogs, 389.
Hormones on the Renal Excretion of Electrolytes, The Effect of the Sex, 60.
Horse Disease, Rare, 17.
Horses Die in Fire, Militia, 247.
Hoskins Memorial Medal Awarded, 138.
Hotels Available for the A. V. M. A. Convention in Memphis, Tennessee, 672.
House of Representatives, A. V. M. A., 69.
House of Representatives, It's Your, 2.
Houston Veterinary Association, 455, 681.
Hunting Rules, Game Supply in Forests Governs, 97.
Hydrocenhalus, Prenatal, 468.

Hydrocephalus, Prenatal, 468. Hypomagnesaemia of the Bovine Without Clinical Symptoms, Seasonal, 135. Ictero-Hemoglobinurla-Like Disease in Florida, An,

543.

543.
Illegal Practice, Two Ohioans Prosecuted for, 140.
Illinois State Veterinary Medical Association, 455.
Indiana Veterinary Medical Association, 144.
Infections of the Bovine Udder, The Concentration
of Sulfanilamide in the Blood and Milk of Cattle
and Its Effect on Brucella Abortus and Strepto-

coccal, 161.
Infections, Staphylococcic, 488.
Influenza, 111.
Influenza, Seasonal Remarks on Hog Cholera and

Influenza, 111.
Influenza, Seasonal Remarks on Hog Cholera and Swine, 55.
Influenza, The Antibody Response to Swine, 550.
Insect Pest Control Demanded by Public, 156.
Intermountain Livestock Sanitary Association, 143.
International Kennel Club Show, 554.
Intestinal Complications Due to Enlarged Liver, 655.

Intestinal Complications Due to Enlarged Liver, 655.
Intussusception, Nonsurgical Relief of, 545.
Invitations for 1941, 113.
Iodine for Gapeworms in Pheasants, Use of, 538.
Iowa Veterinary Medical Association, 146.
Johne's Disease Infection of Laboratory Animals with Aid of Paraffin Oil, 590.
Journal, The, 421.
Journal, The Age of the, 422.
Kansas City Veterinary Medical Association, 67, 682.

State College, Student Chapter of the Kansas

Kansas State College, Student Chapter of the A. V. M. A., 683. Kehlkopferkrankungen, Ein Fall von Pathologischer Verknöcherung in Bereich der Kehlkopfknorpel beim Pferd als Beitrag zur Kasuistik Komplizierter (Chronic laryngeal catarrh complicated with paralysis of the recurrent nerve and partial ossification of the thyroid cartilage in a tenyear-old army mount), 445. Kennel Club to Study Rabies Problem, 553.

Α.

lal,

the

ded

ced

es,

vth ni-

in ace

te.

ment

tes PAof ic-

es.

in

ns.

les

n.

tle

nd

13.

er,

ls

7, he

al

Kentucky Court of Appeals Rules, One Dog May Bite Another, 666. Lamb Problem with Special Reference to White Muscle Disease, Observations on the Stiff, 489. Legal Oddities, 666.

Legal Opinions, 139, 248, 443, 546, 665.

Leukemia of a Hog, Chronic Myeloid, 653.

Leukosis When Subjected to Electrophoresis, T Migration of the Etiologic Agent of Fowl, 178. Leukosis, Fowl, 658.

Liability Insurance, 639.

Listerella Infection in Sheep, Studies on, 669. Liver, Intestinal Complications Due to Enlarged, 655.

Live Stock at Chicago, January Established Low Record for Receipt of, 247.
 Long Island Veterinary Medical Association, 560.
 Lumbago, Therapie der, 448.

Lymph, The Effect of the Pulse on the Formation and Flow of, 61.

Maine Veterinary Medical Association, 252.

Malaria, Multiple-Infected Red Cells in Avian, 243. Mandible and Its Treatment in the Dog, Fracture of the, 647.

Mange: Co tic, 447. Contagiousity for Dogs and Man, Sarcop-

Mange: Contagiousity for Dogs and Man, Sarcoptic, 447.

Manitoba Veterinary Association, 456.
Manuscripts for Publication, 528.
Marriages, 74, 152, 260, 458, 561.

Marsh's Disease, 431.

Mastitis, A Method of Preparing Bovine Udders for the Study of, 372.

Mastitis and Public Health, Streptococcic, 11.

Mastitis as Indicated by Laboratory Tests, The Effect of Sulfanilamide Therapy upon Bovine, 445.

Mastitis of Nonhemolytic Streptococci That Ferment Aesculin, The Cultural and Clinical Significance in Bovine, 496.

Meat from 70 Million Animals Gets Federal Inspection Annually, 32.

Meat Inspection Costs Low, U. S. Records Show, 17.

Meat Plants, Construction and Equipment of Municipal, 172.

Medal to Doctor Lentz, Meritorious, 240.

Medical Occupations, 552.

Meetings, Coming, 8, 116, 229, 454, 555, 674.

Membership Directory, 113.

Milk and Its Control, Quality, 378.

Mississippi Valley Veterinary Medical Association, 68.

(Monstrosity in the Calf). Somatodidymi Gastro-

68

68.
(Monstrosity in the Calf), Somatodidymi Gastro-Thoracodidymus, 569.
Mylasis, Experimental Intestinal, 243.
Myoglobinuria of the Horse, 651.
Narcosis and Anesthesia in Swine Produced by Pentobarbital Sodium, 207.
National Live Stock and Meat Board Relates to Veterinarians, How the Work of the, 198.
National Safety Council Cites Veterinarian's Injury 5

Veterinarians, How the Work of the, 135.
National Safety Council Cites Veterinarian's Injury, 5.
Nation, Destiny of the, 242.
Nebraska State Veterinary Medical Association, 251.
Neorosis of the Tail in Baby Pigs, 652.
Nenhritis and Its Influence upon Hemoglobin Production in Experimental Anemia, 550.
Neurolymphomatosis Phasianorum, 49.
Neuromalacia and "Curled Toe" Paralysis in the Chick Fed Low Riboflavin Diets, 134.
Neuzeitliche Zahnbehandlung beim Pferd (Modern Equine Dentistry), 241.
Nevada State Veterinary Association, 254.
New Jersey, Veterinary Medical Association of, 145.
New York City, Veterinary Medical Association of, 65, 254, 682.
New York World's Fair Exhibit, 452.
New York Cause of Oat Hay Poisoning, 541.
North Carolina State College Short Course for Veterinarians, 252.
Northeast Kansas Veterinary Medical Society, 141, 681.
Northwest Indiana Veterinary Association, 560.

Northwest Indiana Veterinary Association, 560. Nourishment in Sheep, Contribution to Natural Maternal, 448.

Maternal, 448.
Oats to Lambing Ewes, A Ranch Observation on Feeding Sheaf, 128.
Obstetrics (Equine and Bovine), Veterinary, 130. Occupations, Medical, 552.

Ohio State Veterinary Conference, 454. Ohio State Veterinary Medical Association, 251.

Oklahoma Veterinary Medical Association, 145.

One? Have You Heard This, 495. Ordinance, Pigs Ousted from Parlors by Village,

oviduct in a Hen, Ruptured, 127.

Papillomatous Growths on the Feet and Legs of Presumably Iron-Deficient Turkeys, The Occurrence of, 234.

Paraffin Oil, Johne's Disease Infection of Laboratory Animals with Aid of, 590.

Paralysis in the Chick Fed Low Riboflavin Diets, Neuromalacia and "Curled Toe," 134.

Parasites with Hexylresorcinol, Treatment of Intestinal, 230.

Parasitology and Entomology, A Guide to Veterinary, 450.

Paratyphoid and Trichomonas Infection in Pigeons, 434.

Paratyphoid in Chicks, Serologic Types of Sal-

Paratyphoid and Trichomonas Infection in Pigeons, 434.

Paratyphoid in Chicks, Serologic Types of Salmonella Isolated from, 670.

Paratyphoid Infection of Turkeys, 90.

Paresis, The Treatment of Parturient, 129.

Pasteurization, The Use and Value of the Phosphatase Test for Control of, 376.

Pathology and Therapeutics of the Diseases of Domestic Animals, 58.

Pathology, Animal, 131.

Pelztierkrankheiten und ihre Bekampfung (Diseases of Fur-Bearing Animals and Measures to Check Them, 241.

Pentobarbital Sodium, Narcosis and Anesthesia in Swine Produced by, 207.

Pericarditis in Dairy Cattle, Induced Cases of Traumatic Gastritis and, 357.

Perosis a Manganese Deficiency, 410.

Personals, 74, 152, 260, 458, 561, 683.

Philippine Veterinary Medical Association, 1939 Veterinary Congress, 560.

Phi Zeta, Society of, 456.

Phosphatase Test for Control of Pasteurization, The Use and Value of the, 376.

Physicians, French World War, 526.

Pigeon, Pamous Homing, 526.

Pigeon, Pamous Homing, 526.

Pigeon, Paratyphoid and Trichomonas Infection in, 434.

Pigs, Big Year Ahead for, 160.

Pine Disease in Sheep, The Influence of Cobalt on, 133.

Plasma and Extracellular Fluid, The Effect of

Effect of

Plasma and Extracellular Fluid, The Effect of Ether Anesthesia on the Volume of, 136. Pneumococcal Infections in Mice, Effect of Sul-

Pneumococcal Infections in Mice, Effect of Sulfanilamide on, 445.
(Pneumoenteritis) of Dairy Calves, Some Observations on the Nature and Transmission of Enzotic Bronchopneumonia, 28.
Pneumonia, Pathology of Calf, 365.
Pneumonia, Equine Contagious, 669.
Pneumonia, Shipping Fever of Cattle Complicated with, 654.
Poisoning in Cattle Traced to Argenta in Carlo

with, 654.

Poisoning in Cattle Traced to Arsenic in Grasshopper Bait, 46.

Poisoning in Hogs, Salt, 55.

Poisoning in Horses, Onion, 52.

Poisoning in Pigs, Wild-Cherry, 123.

Poisoning, Nitrate as the Cause of Oat Hay, 541.

Poisoning with a Moral, Spectacular, 120.

Polypus in a Chimpanzee, Nasal, 56.

Poultry Mortality of Noninfectious Origin, Adult, 209.

209.
Poultry-Practice Situation, The, 426.
Poultry Yards, Sulfured Soil for, 409.
Pox Viruses in the Respiratory Tract, The Behavior of, 61.
Principles of Veterinary Science. 451.
Problems of the Hour, Medical, 526.
Professional Club at New York Fair, 553.
Prontosil and Sulfanilamide on Brucella Abortus Infection in Two Cows, Effect of, 35.
Prophylaxis and Treatment of Animals, Anaphylaxis as Related to Biologic, 418.
Prosthogonimus Macrorchis, Disease in Turkeys Due to, 537.

Prosthogonimus Macrorchis, Disease in Turkeys Due to, 537.
Publications Received. 59, 132, 242.
Publicity, Helpful, 170.
Publicity Plans, A. V. M. A., 453.
Publicity Plans Revised, A. V. M. A., 553.
Puerto Rico and Virgin Islands Accredited, 136.
Pullets' Eggs, Selected Males Increase Weight of, Pullorum Disease in Young Guinea Fowl, An Outbreak of, 233.

Pulse on the Formation and Flow of Lymph, The

Pulse on the Formation and Flow of Lympn, one Effect of the, 61. Pulse on the Spread of Substances Through Tissues, The Effect of the, 61. Purpura Hemorrhagica, Blood Transfusion in, 657. Purpura in the Dog, Pathological Anatomy of Experimental Thrombopenic, 547. Rabies Deaths in Chicago During 1938, No, 43. Rabies Problem, Kennel Club to Study, 553. Railletina Echinobothrida and of Railletina Tetragona (Cestoda), Observations on the Life History of, 134. Railletina Tetragona (Cestoda), Observations on the Life History of Railletina Echinobothrida and of, 134.

the Life History of Raillietina Echinobothric and of, 134. Reindeer in Finland, Ravenous Wolves Kill, 117. Reorganization, On, 4.

Reorganisation, Ch. A. Retired, 37. Rhodes Scholarship, Veterinary Student Wins, 256. "Running Fits," The Cure and Cause of, 594. "Salmonella Isolated from Paratyphoid in Chicks, Serologic Types of, 670. Sanitary Inspection, The Financing of Veterinary,

Section Officers, Election of, 427. Septicemia in Indian Buffaloes, Hemorrhagic, 492. Sheep, Contribution to Natural Maternal Nourishment in, 448.

Septicemia in Indian Buildoos, Maternal NourishSheep, Contribution to Natural Maternal Nourishment in, 448.
Sheep of China, Streamlined, 536.
Shipping Fever of Cattle Complicated with Pneumonia, 654.
Shrinkage Test for Wool Fleeces Sought, Simple, 77.
Shute Test for Vitamin E Deficiency, The, 424.
Sick List, On the, 10.
Skin Diseases Occurring in Both Man and Animals,
398.

Skin Diseases of the Dog, Nonspecific, 78.
Skin Diseases, Parasitic, 509.
Skin of Tuberculous Guinea Pigs as Demonstrated with a Vital Dye, Altered Cutaneous Conditions

Somatodidymi Gastro-Thoracodidymus (Monstrosity

in the Calf), 569.
South Dakota Veterinary Medical Association, 142.
Southeast Kansas Veterinary Medical Society. 682.
Southeastern Iowa Veterinary Medical Association,

Southern Alabama-West Florida Veterinary Medi-cal Club, 141.

Southwestern Iowa Veterinary Medical Association,

Southwestern Minnesota Veterinary Medical Association, 560.

Streptococci and Their Antibodies, Hemolytic Toxins of, 243.
Streptococci in the Udder of the Cow, The Significance of Human Double-Zone Beta Hemolytic,

cance 243.

243.
Streptococci That Ferment Aesculin, The Cultural and Clinical Significance in Bovine Mastitis of Nonhemolytic, 496.
Suckleya Suckleyana, a Poisonous Plant, 192.
Sulfanilamide, 2.
Sulfanilamide in Actinomycosis, 664.
Sulfanilamide in Canine Coccidiosis, 240.
Sulfanilamide in Experimental Brucellosis, The Use

of, 550.

Sulfanilamide in the Blood and Milk of Cattle and Its Effect on Brucella Abortus and Streptococcal Infections of the Bovine Udder, The Concentra-

Its Effect on Brucella Abortus and Streptococcai Infections of the Bovine Udder, The Concentration of, 161.

Sulfanilamide on Brucella Abortus Infection in Two Cows, Effect of Prontosil and, 35.

Sulfanilamide on Experimental Infections with Bacterium Necrophorum in Rabbits, The Effect of, 551.

Sulfanilamide on Pneumococcal Infections in Mice,

Sulfanilamide on Pneumococcal Infections in Mice, Effect of, 445. Sulfanilamide Therapy upon Bovine Mastitis as Indicated by Laboratory Tests, The Effect of, 445. Superfetation in a Sow, 125. Swine Erysipelas, 654. Swine Erysipelas, 669. Swine Erysipelas, 669. Swine Fever Virus to Physical Agencies and Chemical Disinfectants, The Resistance of the, 136. Swine Influenza, Seasonal Remarks on Hog Cholera and, 55. Swine Influenza, The Antibody Response to, 550, Swine-Pox, 126.

Swine-Pox, 126. Swine, Some Nutritional Studies in, 517.

Sylvatic Plague, The, 620.
Teeth of Guinea Pigs, The Effect of Ascorbic Acid Deficiency on Enamel in the, 243.
Tennessee Veterinary Medical Association, 253.
Tetanic Toxoid Immunity, Duration of, 447.
Tetanus in a Cat, 230.
Texas, State Veterinary Medical Association of, 253.
Thrombose, Ein Fall von, 549.
Thrombose, Ein Fall von, 549.
Thrombic Obstruction of the Posterior Aorta of a Horse, 667.
Thyroid, About the, 495.
Toxins upon Some Respiratory Mechanisms of Animal Tissues, The Effect of Certain Bacterial, 133.
Toxoid as an Immunizing Agent Against Infectious Necrotic Hepatitis (Black Disease) in Sheep, An Alum-Precipitated, 98.
Transfusion Therapy, The Physiological Background of, 18.
Trichinosis and Trichinosics and, 662.
Trichinosis, Tests for, 226.
Trichinosis, Tests for, 226.
Trichinosis, IX. The Part of the Veterinary Profession in the Control of Human Trichinosis, Studies on, 601.
Tri-State Veterinary Medical Association, 67.
Trumpeter Swan, 620.
Tubercle Bacilli and Their Products, Cellular Reactions to Defatted, 245.
Tubercule Proteins Compared with the Reactions of, 246.

actions to Detatted, 249.

Tubercile Bacilli of the Human Type, The Virulence of, 246.

Tuberculo-Proteins Compared with the Reactions to Tuberculosis, Cellular Reactions to, 244.

Tuberculosis, Studies on the Mechanism of Immunity in. The mobilization of mononuclear phagocytes in normal and immunized animals and their relative capacities for division and phagocytosis, 668.

Tularemia Epidemic in Illinois, 43.

Tumors Induced in Fowls by Injection of Tar, Further Observations on Filtrable, 549.

Turkeys Due to Prosthogonimus Macrorchis, Disease in, 537.

Turkeys, Paratyphoid Infection of, 90.

Turkeys, The Occurrence of Papillomatous Growths on the Feet and Legs of Presumably Iron-Deficient, 234.

on the reet and Legs of Freshman, Tron-Deficient, 234. Ultraviolet Radiation, The Uses of Selected Wave-

Ultraviolet Radiation, The Uses of Selected Wavelengths of, 157.
Undulant Fever, The Incidence of, 550.
Unlicensed Illinois Practitioner, Fine, 140.
Urine Analysis, Practical, 658.
U. S. L. S. S. A. Report, 10.
Vaccination with Brucella Abortus Strain 19 in an Infected Herd, Results of, 587.
Vermont Veterinary Medical Association, 142.
Vertebrae of Swine, Variations in the Number of, 548.

548.
Vesicular Stomatitis in Chick Embryo, Propagation of the Virus of, 608.
Veterinarians, On the Shortage of, 423.
Veterinary Obstetrics (Equine and Bovine), 130.
Virus of Vesicular Stomatitis in Chick Embryo, Propagation of the, 608.
Visitors at the JOURNAL Office, 43.
Vitamin A upon Urea and Inulin Clearance in the Dog, The Influence of, 549.
Vitamin B₁, Synthetic, 674.
Vitamin E and Nutritional Muscular Dystrophy, 661.

Vitamin E Deficiency, The Shute Test for, 424.
Vitamin E In the Nutrition of Animals, 81.
Vitamin Studies Produce Important Results, 1.
Voles to Human and Bovine Strains of Tubercle Bacilli, The Susceptibility of, 62.
Washington State Veterinary Medical Association, 66.

way on His Way, 427.
Welcome, Address of, 38.
Westchester Veterinarian's Club. 251.
Western New York Veterinary Medical Association,

Wildlife Refuges, Started in 1903, Now Total 250,

177.
Wolf Tooth of Solipeds, The, 548.
Woman of the Year, Mrs. C. H. Case Named

Wolf Tooth of Solineds, The, 548.
Woman of the Year, Mrs. C. H. Case Named Akron's, 255.
World's Fair Exhibit, New York, 452.
World's Fair Is Dedicated; Profession Praised, Veterinary Science Exhibit at New York, 563.
World's Poultry Congress, 453.
World's Poultry Congress, A. V. M. A. Day, 637.
You Interested Too? Are, 530.
Youth Violating Duck Law Sentenced to Study Game, 228.

